# AR Remediation Plan – Length, Weight/Mass, Liquid Volume, and Temperature

### Measurement Bingo

### STRAND: Measurement and Geometry

### STRAND CONCEPT: Length, Weight/Mass, Liquid Volume, and Temperature

### SOL 4.8a; 4.8b; 4.8c; 5.9a

#### Remediation Plan Summary

Students play BINGO to reinforce measurement skills.

#### Common Errors and Misconceptions

Students have a difficult time measuring and changing units. They need a lot of practice working with measurement and converting between units.

#### Materials

Attached BINGO cards

Chips/counters to use as markers

Stopwatch

#### Introductory Activity

Group students into pairs, and have each pair list the customary units of measure used for length, weight/mass, liquid volume, area, and temperature. Allow each pair to present their list, and have them add any unit(s) they may have missed.

#### Plan for Instruction

1. This game is effective as a closing activity for a lesson on measurement. Determine which skill you wish the students to practice, and select the appropriate BINGO card for reinforcing (1) customary measurement, (2) metric measurement, (3) ballpark comparisons, or (4) conversions between customary and metric units.
2. Give students the BINGO cards and chips/counters to use as markers.
3. Call out a measurement from the answer-key card. Students must determine where the answer fits correctly and cover that square with a marker within a predetermined, limited period of time. When time is up, call time, and have all students put down their markers. Announce the correct answer. If students did not cover the correct answer *before* you read it aloud, they may not mark it afterwards. If students covered a square incorrectly, they must remove their marker from that square.
4. Repeat step 3 until a student(s) covers an entire row or column, yells BINGO, and wins the game.

#### Pulling It All Together (Reflection)

Have students create their own BINGO cards for customary or metric measurement, based on the attached cards.

**Note: The following pages are intended for classroom use for students as a visual aid to learning.**

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### Name:

Customary Measurement BINGO

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| length of a new pencil | length of a person’s arm | weight/mass of a newborn baby | temperature of freezing water | weight of an elephant |
| distance from Virginia to California | liquid volume of a large container of milk | temperature of boiling water | length of a paper clip | weight of a large dog |
| liquid volume of a serving of soda | normal body temperature | liquid volume of a large bucket | weight/mass of a nickel | liquid volume of a small carton of milk |
| volume of a container of ice cream | length of a football field | measurement of new carpet needed for your room | temperature of the classroom | liquid volume of a bathtub |

### Name:

Metric Measurement BINGO

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| length of a new pencil | length of a van | weight/mass of a newborn baby | temperature of freezing water | weight/mass of an elephant |
| height of the room | liquid volume of a large container of soda | temperature of boiling water | thickness of a dime | weight/mass of a grain of salt |
| liquid volume of a small cup of coffee | normal body temperature | liquid volume of a car’s gas tank | weight/mass of a nickel | length of a baseball bat |
| weight/mass of a paperclip | length of a walking race | weight/mass of a 12 year old | temperature of the classroom | liquid volume of a bathtub |

### Name:

Equivalent Units BINGO

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 8 quarts =\_\_\_\_ gallons | 2 pounds = \_\_\_\_\_ ounces | 2.75 meters = \_\_\_\_ centimeters | 250 mL = \_\_\_\_\_liters | 6.5 grams = \_\_\_\_\_ milligrams |
| 133 milligrams = \_\_\_\_\_ grams | 2 feet = \_\_\_\_\_ inches | 3 quarts =\_\_\_\_\_ pints | 1 ton = \_\_\_\_\_ pounds | 88 meters = \_\_\_\_\_ kilometers |
| 160 ounces = \_\_\_\_\_ pounds | 1 quart = \_\_\_\_\_ cups | 5,000 meters = \_\_\_\_\_ kilometers | 1 mile =\_\_\_\_\_ feet | 1 mile = \_\_\_\_\_ yards |
| 8.3 meters = \_\_\_\_ centimeters | 8.5 liters = \_\_\_\_\_ milliliters | 6 kilograms = \_\_\_\_\_ grams | 21 feet =\_\_\_\_\_ yards | 15 yards = \_\_\_\_\_ feet |